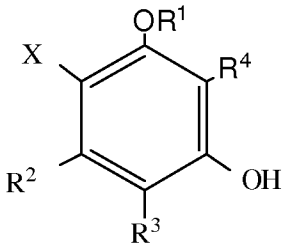
AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

[1] (currently amended) A compound represented by formula (I),

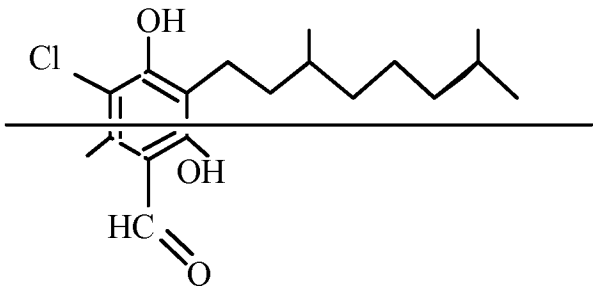
~~[Formula 1]~~

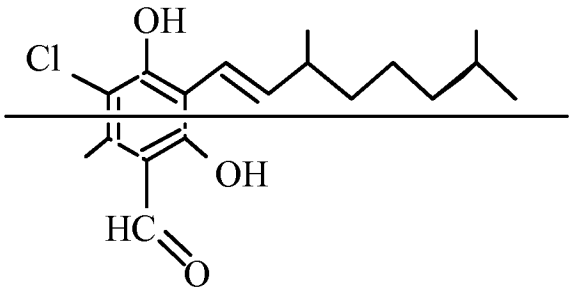


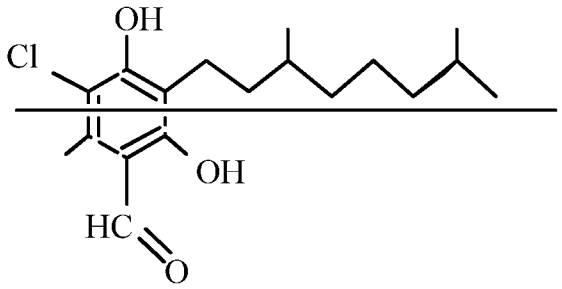
(I)

~~a compound represented by the following formulae,~~

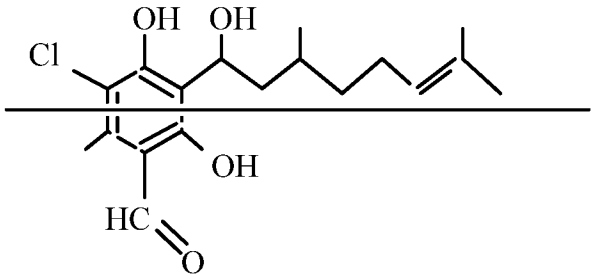
~~[Formula 2-1]~~

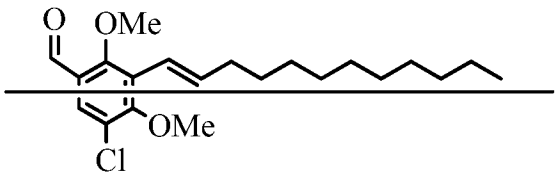






~~[Formula 2-2]~~





an optical isomer ~~thereof~~ thereof, or a pharmaceutically acceptable salt thereof,

wherein

X is a hydrogen atom or a halogen atom;

R^1 is a hydrogen atom or $-(C_nH_{2n})$-R' (wherein n is an integer of 1 to 5; and R' is a hydrogen atom, a group COOR'' or –COR''' of a substituent on any one of the n carbon atoms, wherein R'' is a hydrogen atom or a C_{1-4} alkyl group; and R''' is a pyridyl group, an amino group substituted with a C_{1-4} alkyl group, a phenoxyalkyl group having a halogen atom on the carbon atoms of the benzene ring or a phenyl group having a C_{1-4} alkoxy group or a C_{1-4} alkoxycarbonyl group on the carbon atoms of the benzene ring);

R^2 is a hydrogen atom or a C_{1-4} alkyl group;

R^3 is –CHO or –COOH; and

R^4 is –CH=CH-$(CH_2)_p$-CH_3 (wherein p is an integer of 1 to 12), -CH(OH)-$(CH_2)_q$-CH_3 (wherein q is an integer of 1 to 13), -CH(OH)-CH_2-$CH(CH_3)$-$(CH_2)_2$-CH=$C(CH_3)_2$, -CH=CH-$CH(CH_3)$-$(CH_2)_3$-$CH(CH_3)_2$, -$(CH_2)_2$-$CH(CH_3)$-$(CH_2)_3$-$CH(CH_3)_2$, or –$(CH_2)_8$-CH_3].

[2] (currently amended) The compound of claim 1 ~~represented by formula (I)~~, wherein

X is a hydrogen atom;

R^1 is a hydrogen atom;

R^2 is a C_{1-4} alkyl group;

R^3 is –CHO; and

R^4 is –CH(OH)-$(CH_2)_q$-CH_3 (wherein q is an integer of 1 to 12),

an optical isomer ~~thereof~~ thereof, or a pharmaceutically acceptable salt thereof.

[3] (currently amended) The compound of claim 1 ~~represented by formula (I)~~, wherein

X is a halogen atom;

R^1 is a hydrogen atom;

R^2 is a C_{1-4} alkyl group;

R^3 is –CHO; and

R^4 is –CH(OH)-$(CH_2)_q$-CH_3 (wherein q is an integer of 1 to 12),

an optical isomer ~~thereof~~ thereof, or a pharmaceutically acceptable salt thereof.

[4] (currently amended) The compound of claim 1 ~~represented by formula (I)~~,

wherein

X is a hydrogen atom or a halogen atom;

R^1 is a hydrogen atom;

R^2 is a hydrogen atom or a C_{1-4} alkyl group;

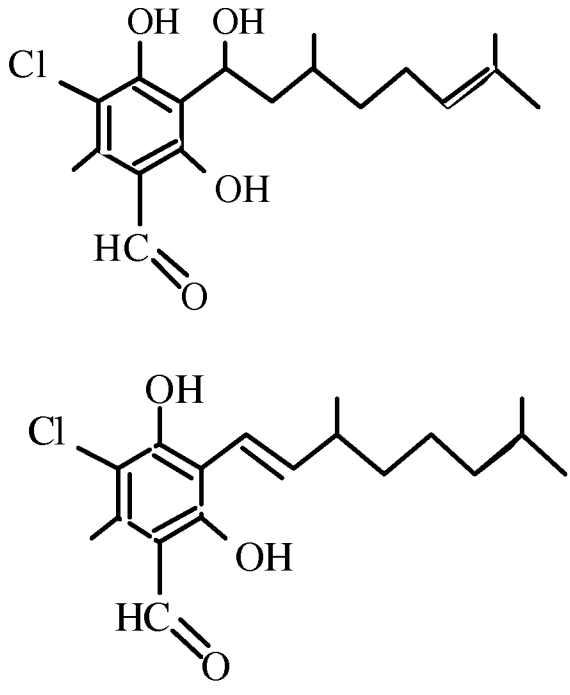
R^3 is –CHO; and

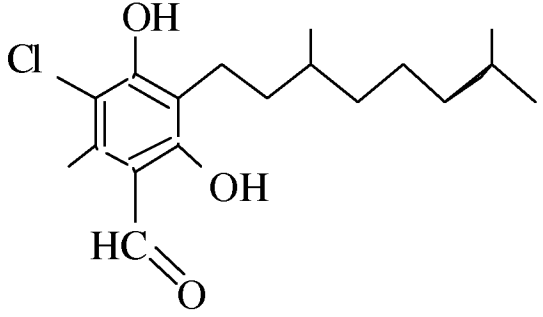
R^4 is $–CH=CH-(CH_2)_p-CH_3$ (wherein p is an integer of 1 to 12),

an optical isomer ~~thereof~~ thereof, or a pharmaceutically acceptable salt thereof.

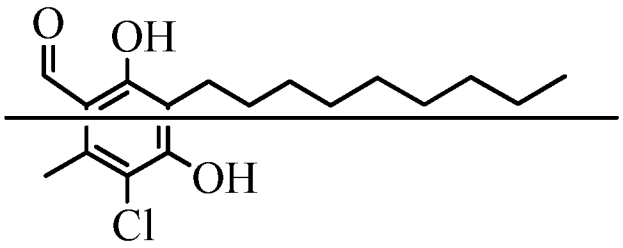
[5] (currently amended) ~~The~~ A compound ~~of claim 1~~ selected from the following formulae:

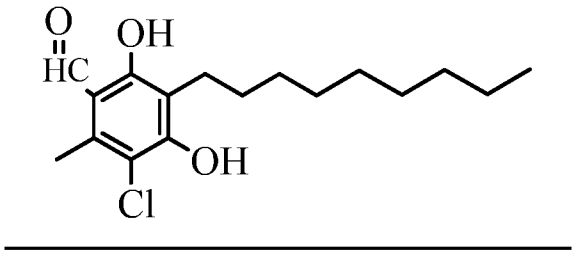
~~[Formula 3-1]~~

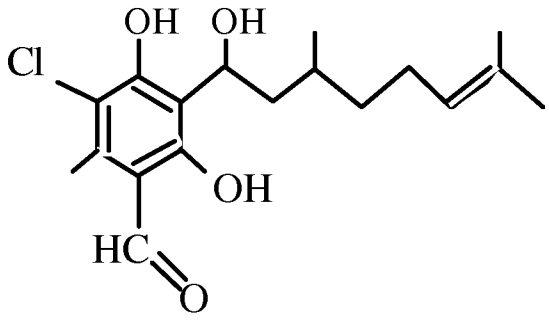




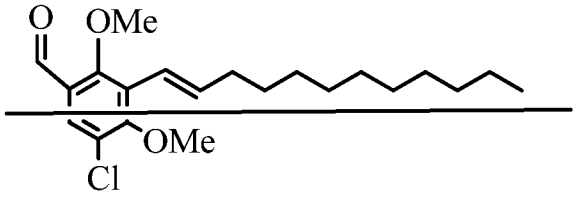
~~[Formula 3-2]~~

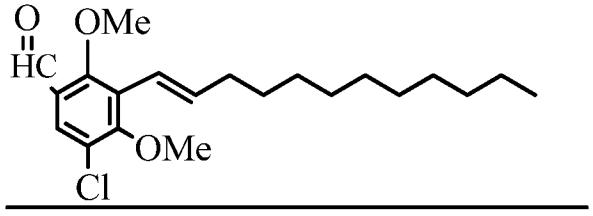






~~[Formula 3-3]~~and

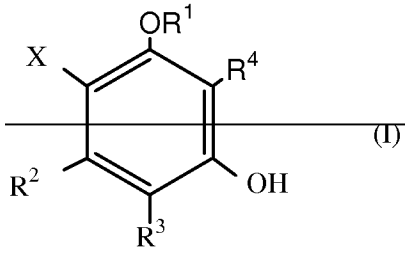




an optical isomer ~~thereof~~ of any of them, or a pharmaceutically acceptable salt ~~thereof~~ of any of them.

[6] (currently amended) A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a compound according to claim 1.

~~[Formula 4]~~



~~wherein~~

~~X is a hydrogen atom or a halogen atom;~~

~~R^4 is a hydrogen atom or $-(C_nH_{2n})$-R' (wherein n is an integer of 1 to 5; and R' is a hydrogen atom, a group COOR'' or –COR''' of a substituent on any one of the n carbon atoms, wherein R'' is a hydrogen atom or a C_{1-4} alkyl group; and R''' is a pyridyl group,~~

~~an amino group substituted with a C_{1-4} alkyl group, a phenoxyalkyl group having a halogen atom on the carbon atoms of the benzene ring or a phenyl group having a C_{1-4} alkoxy group or a C_{1-4} alkoxycarbonyl group on the carbon atoms of the benzene ring);~~

~~R^2 is a hydrogen atom or a C_{1-4} alkyl group;~~

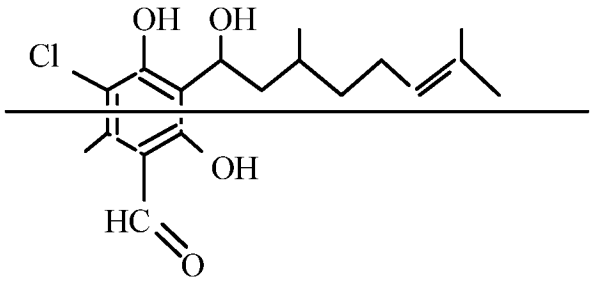
~~R^3 is –CHO or –COOH; and~~

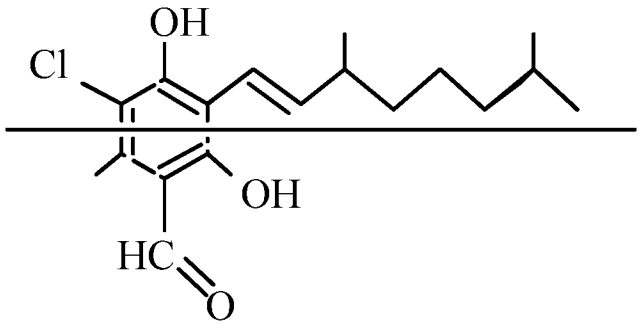
~~R^4 is –CH=CH-$(CH_2)_p$-CH_3 (wherein p is an integer of 1 to 12), -CH(OH)-$(CH_2)_q$-CH_3 (wherein q is an integer of 1 to 13),~~

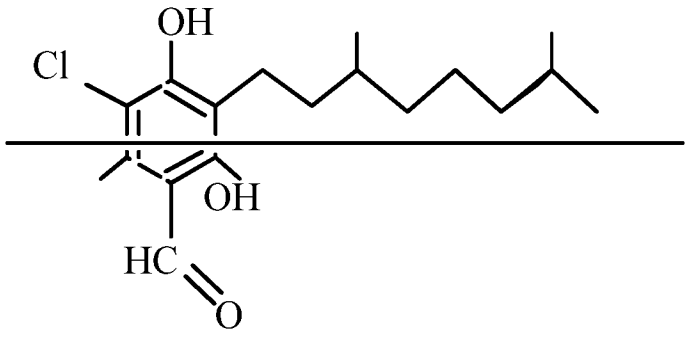
~~-CH(OH)-CH_2-$CH(CH_3)$-$(CH_2)_2$-CH=$C(CH_3)_2$, -CH=CH-$CH(CH_3)$-$(CH_2)_3$-$CH(CH_3)_2$, -$(CH_2)_2$-$CH(CH_3)$-$(CH_2)_3$-$CH(CH_3)_2$ or –$(CH_2)_8$-CH_3],~~

~~a compound represented by the following formulae:~~

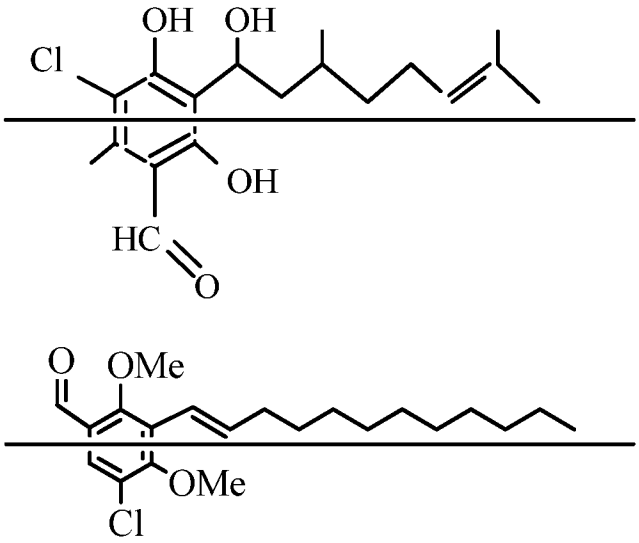
~~[Formula 5-1]~~







~~[Formula 5-2]~~



~~an optical isomer thereof and an pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier.~~

[7] (currently amended) The pharmaceutical composition of ~~claim 6 comprising a compound represented by formula (I)~~claim 6,

wherein

X is a hydrogen atom;

R^1 is a hydrogen atom;

R^2 is a C_{1-4} alkyl group;

R^3 is –CHO; and

R^4 is $-CH(OH)-(CH_2)_q-CH_3$ (wherein q is an integer of 1 to 12.

[8] (currently amended) The pharmaceutical composition of claim 6 ~~comprising a compound represented by formula (I)~~,

wherein

X is a halogen atom;

R^1 is a hydrogen atom;

R^2 is a C_{1-4} alkyl group;

R^3 is –CHO; and

R^4 is $-CH(OH)-(CH_2)_q-CH_3$ ~~wherein~~, wherein q is an integer of 1 to 12.

[9] (currently amended) The pharmaceutical composition of claim 6 ~~comprising a compound represented by formula (I)~~,

wherein

X is a hydrogen atom or a halogen atom;

R^1 is a hydrogen atom;

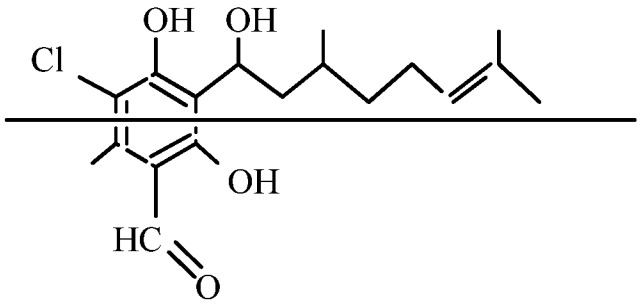
R^2 is a hydrogen atom or a C_{1-4} alkyl group;

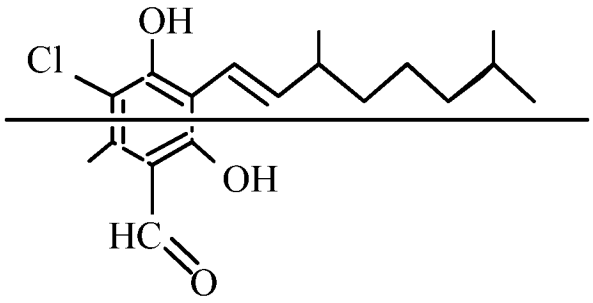
R^3 is –CHO; and

R^4 is $-CH=CH-(CH_2)_p-CH_3$ ~~(wherein~~, wherein p is an integer of 1 to 12.

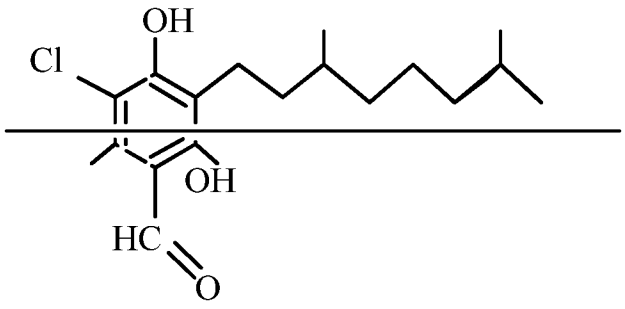
[10] (currently amended) ~~The pharmaceutical composition of claim 6 comprising at least one of a compound represented by the following formulae:~~ A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a compound according to claim 5.

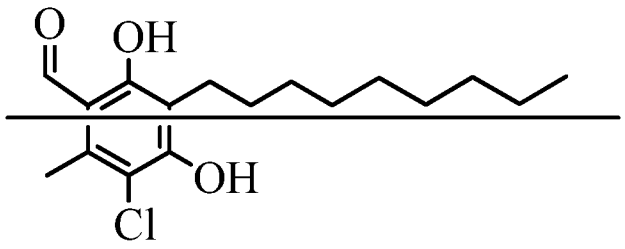
~~[Formula 6-1]~~



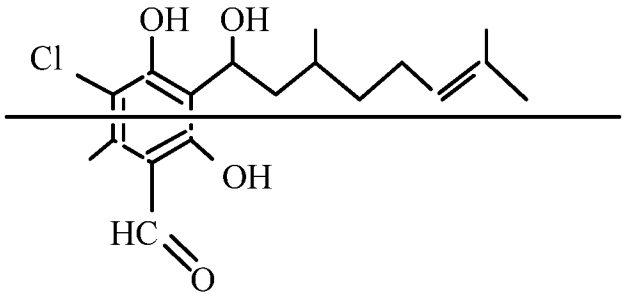


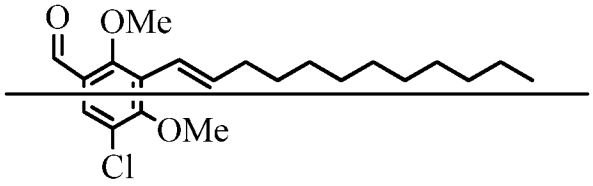
~~[Formula 6-2]~~





~~[Formula 6-3]~~





~~an optical isomer thereof and a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier~~

[11] (currently amended) The pharmaceutical composition of ~~any one of claims~~ claim 6 ~~to 10 which comprises~~comprising glycerin.

[12] – [17] cancelled

[18] (new) The pharmaceutical composition of claim 7 comprising glycerin.

[19] (new) The pharmaceutical composition of claim 8 comprising glycerin.

[20] (new) The pharmaceutical composition of claim 9 comprising glycerin.

[21] (new) The pharmaceutical composition of claim 10 comprising glycerin.